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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

The state of the s				
Attorney Docket No.	Moy 1-005			
First Inventor	William R. Moyle			
Title	Protein Knobs			
Exampa Mail Label No.	EU858010961US			

(511) to not not providenta applicazione ander en en 1.55(5))	Express Mail Label No. 2000001090100				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450				
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 52] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS				
4. Drawing(s) (35 U.S.C. 113) [Total Sheets34]	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee)				
Oath or Declaration [Total Sheets4] Newly executed (original or copy)	11. English Translation Document (if applicable) 12. Copies of IDS				
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)	Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503)				
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR	(Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122				
1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76	(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other:				
18. If a CONTINUING APPLICATION, check appropriate box, and suppose specification following the title, or in an Application Data Sheet under 3.					
Continuation Divisional Continuation-in-part (CIP) of prior application No.:					
Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS					
	JENCE ADDRESS				
Customer Number: 00041606	OR Correspondence address below				
Name					
Address					
City	State Zip Code				
Country	elephone Fax				
Name (Print/Type) Richard R. Muccino	Registration No. (Attorney/Agent) 32,538				
Signature (1)	Date 10 March 2004				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/17 (08-03)
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FEE TRANSMITTAL		Complete if Known						
FEE INANSMITTAL			Application Number					
for EV 2002			Filing Date					
for FY 2003 Effective 01/01/2003. Patent fees are subject to annual revision.			First Named Inventor William		or William	R. Moyle		
		Exam	iner Na	ame				
Applicant claims small entity status. See 37 CFR 1.27		Art U	nit			-		
TOTAL AMOUNT OF PAYMENT (\$) 856		Attorney Docket No. Moy 1-		. Moy 1-0	005			
METHOD OF PAYMENT (check all that apply)				FEE	CALCULA	TION (cor	ntinued)	
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Number	105		2051		Surcharge - late	•		
Account Richard R. Muccino	105	2 50	2052		Surcharge - late cover sheet	e provisional	filing fee or	
Name The Director is authorized to: (check all that apply)	105	3 130	1053	130 N	Non-English sp	ecification		
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Charge any additional fee(s) during the pendency of this applicati	on 1804	4 920*	1804		Requesting pub Examiner actior		R prior to	
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1. BASIC FILING FEE	125	2 410	2252	205 [[]	Extension for n	eply within se	cond month	——— I
Large Entity Small Entity	125	3 930	2253	465 I	Extension for n	eply within th	ird month	
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1001 750 2001 375 Utility filing fee 770	125	5 1,970	2255	985 l	Extension for re	eply within fif	th month	
1002 330 2002 165 Design filing fee	140 ⁻	1 320	2401	160	Notice of Appe	al		
1003 520 2003 260 Plant filing fee	140	2 320	2402	160 l	Filing a brief in	support of a	n appeal	
1004 750 2004 375 Reissue filing fee	140	3 280	2403	140 F	Request for ora	al hearing		I
1005 160 2005 80 Provisional filing fee	! B	1 1,510	1451	1,510 F	Petition to instit	tute a public i	use proceeding	
SUBTOTAL (1) (\$) 770		2 110	2452	55 F	Petition to reviv	re - unavoida	ble	
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over original patent		1 750	2801		•	٠,	mination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent			1802		Request for ex of a design app		mination	
I SUBIDIAL(2) ((5) 00 II			her fee (specify)					
**or number previously paid, if greater, For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0								
SUBMITTED BY						(Complete	if applicable))	
Name (Print/Type) Richard R. Muccino Registration No. (Attorney/Agent) 32,538 Telephone 908-273-4988								
Signature ZUMAZ MA (in						Date	10 March 2004	·

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

RICHARD R. MUCCINO 758 Springfield Avenue Summit, New Jersey 07901

(908) 273-4988 Fax: (908) 273-4679

PATENT

EXPRESS MAIL

10 March 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Alexandria,	VA 22313-1430
	Re: NEW APPLICATION TRANSMITTAL
Dear Sir	
Enc	closed please find the patent application of:
Inventor(s):	William R. Moyle and Yongna Xing
For (Title):	PROTEIN KNOBS
This nev	w application is for a(n)
x	Original.
	Design.
	Divisional.
	Continuation.
	CERTIFICATION UNDER 37 C.F.R. SECTION 1.10
"Express Mail"	mailing label number <u>EURS8 010 96 IUS</u> .
Date of Deposi	10 March 04
enclosed, are to Addressee" addressed to t	tify that this New Application Transmittal, and the documents referred to as being deposited with the United States Postal Service "Express Mail Post Office service pursuant to 37 C.F.R. Section 1.10 on the date set out above and is he: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Muccino
(typed na	me of person mailing papers) (signature of person mailing papers)

(typed name of person mailing papers)

(signature of person mailing papers)

Assistant Commissioner for Patents 10 March 2004 Page 2 Continuation-in-part (CIP). the specification of which: X is attached hereto. was filed on _____ as Application Serial No. and was amended on ______. (if applicable) described and claimed in International Appln. No. was PCT/US02/35914 filed on 8 November 2002. and was amended on ENCLOSED ARE THE FOLLOWING DOCUMENTS REQUIRED FOR FILING DATE UNDER 37 C.F.R. SECTION 1.53(b) (REGULAR) OR 37 C.F.R. SECTION 1.153 (DESIGN) APPLICATION Pages of Specification. Page(s) of Claims. 1 Page(s) of Abstract. Page(s) of Sequence Listings. Sheet(s) of Drawings, which are X formal informal. ADDITIONAL PAPERS ENCLOSED X A preliminary amendment under 37 C.F.R. Section 1.111 is attached. Please amend the specification by inserting before the first line the sentence: ion is a continuation continuation continuation-in-part This application is a continuation divisional of copending U.S. application serial no. Prior to calculating the filing fee, please amend the claims by deleting claims Information Disclosure Statement. Form PTO-1449. References. Declaration of Biological Deposit. Special Comments. Assignment. Small Entity Statement.

Express Mail Certification (part of this transmittal letter).

Credit Card Payment Form in the amount of \$856.00 calculated as set

Two (2) stamped return-addressed postcards.

forth below.

Other.

FILING FEE CALCULATION

A. _X_ REGULAR APPLICATION.

Basic Fee		\$ 770.00
Extra Claims	Rate	
Total Claims 19 -20 =0_ x	\$18.00 = \$	
Indep. Claims 4 - 3 =1_ x	\$86.00 =	\$ 86.00
Multiple dependent claim(s), if any	\$290.00	\$0
	TOTAL FEE	\$ 856.00

FEE PAYMENT BEING MADE AT THIS TIME

X	Basic filing fee.	\$ 856.00

METHOD OF PAYMENT OF FEES

X Credit Card Payment Form in the amount of \$856.00 is enclosed.

AUTHORIZATION TO CHARGE ADDITIONAL FEES

X The Commissioner is hereby authorized to charge all fees required during the entire pendency of this application except the issue fee to Deposit Account 13-4822.

INSTRUCTIONS REGARDING OVERPAYMENT

X Credit any overpayment to Deposit Account 13-4822.

(A duplicate of this transmittal letter is attached.)

RICHARD R. MUCCINO Attorney For Applicant(s) Registration Number 32,538

Please forward correspondence to:

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Summit, New Jersey 07901
Telephone no. (908) 273-4988
Fax (908) 273-4679
Enclosures